

Abstract Submitted
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Positron scattering from helium ALLAN STAUFFER, York University, ROBERT MCEACHRAN, Australian National University — We present scattering results for positron-helium scattering for energies from zero to 1 keV. These have been calculated using our complex optical potential method [1]. Positronium formation was calculated using the technique reported in [2]. Integrated cross sections are given for elastic, inelastic, ionization, positronium formation and total scattering. These are compared with experimental and other theoretical results and good agreement is obtained except in the case of ionization below the peak of the cross section. [1] Chen S, McEachran R P and Stauffer A D 2008 *J. Phys. B* **41** 025201 [2] McEachran R P and Stauffer A D 2013 *J. Phys. B* **46** 075203

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